The thesis presents the results of the serum biochemical changes taking place in diabetics and the role of curry leaves powder and dry Sundakai powder in its efficacy as a glycemic and lipemic control in Diabetes Mellitus.

The thesis is divided into 10 chapters. Chapter 1 gives a brief introduction with the objectives of the study. Chapter 2 deals with the review of literature and Chapter 3 gives a brief overview of the various methodologies involved in the estimation of various biochemical parameters. The detailed experimental methodology have been described in respective chapters under methods and materials section.

The study on serum biochemical changes taking place in diabetics and their role in the secondary complications has been dealt in Chapter 4.

Further, studies have been carried out on the effect of dry Sundakai powder supplementation on carbohydrate and lipid metabolism in rats and diabetic patients. The results are presented in Chapter 5 and 6.

Chapter 7 and 8 deals with the results of the dietary supplementation studies with dry curry leaves powder supplementation in the rats and diabetic patients respectively.
An overall summary of the five studies have been dealt in Chapter 9.

The figures and tables are numbered consecutively and a consolidated bibliography in an alphabetic order is given at the end of the thesis as Chapter 10.

The salient features of the study have been presented at the following National and International Scientific Meetings as mentioned below:

1. Indo-USA Symposium on Endocrinology, Metabolism and Diabetes at All India Institute of Medical Sciences, New Delhi in 1990.
2. 2nd World Congress on Cardiovascular Disease held in Delhi in 1990.
3. Annual Meeting of Nutrition Society of India held in Hyderabad in 1990.
5. 14th International Congress of Nutrition held at Seoul (Korea) in 1989.

Part of the present study has been published/communicated in the following journals:

1. Studies on the effect of curry leaves (Murraya Koenigii) supplementation on lipid profile,
glycated proteins and amino acids in NIDDM patients.

2 Studies on the effect of dry Sundakai (Solanum Torvum) powder supplementation on lipid profile, glycated proteins and total amino acids in NIDDM patients.
Plant Foods for Human Nutrition (in Press).

3 Studies on the effect of dry Sundakai (Solanum Torvum) powder supplementation on fasting blood sugar, serum and tissue lipids in diabetic rats.
Journal of the American College of Nutrition (communicated).

4 Studies on the effect of dry curry leaves (Murraya Koenigii) powder supplementation on fasting blood sugar, serum and tissue lipids in diabetic rats.
Human Nutrition: Clinical Nutrition (communicated).

5 Serum biochemical changes in non-insulin dependent Diabetes mellitus and Insulin dependent diabetes mellitus and their role in the development of secondary complications.
Atherosclerosis (communicated).